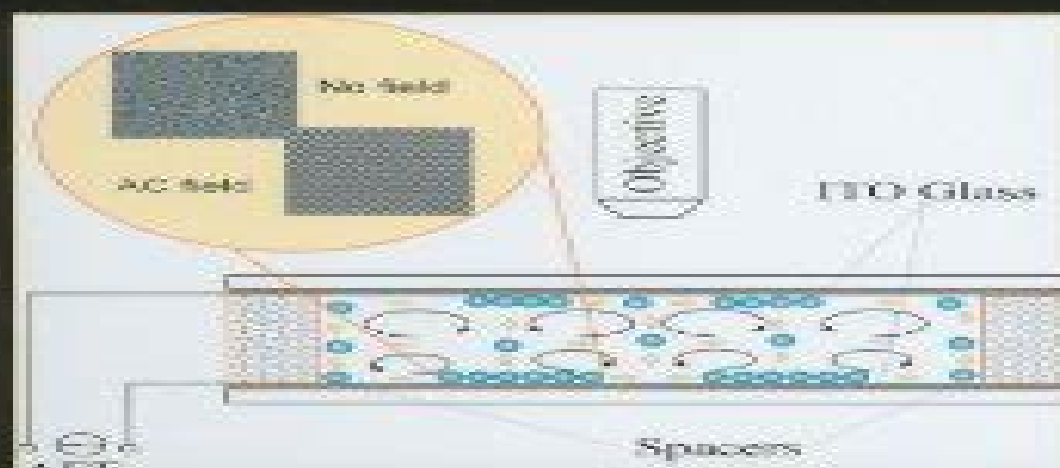


NANOSTRUCTURE SCIENCE AND TECHNOLOGY
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Nanoscale Structure and Assembly at Solid-Fluid Interfaces

Volume 1: Interfacial Structures versus Dynamics



Edited by Xiang Yang Liu and James J. De Yoreo

Nanoscale Structure And Assembly At Solidfluid Interfaces

Tatau Nishinaga



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Nanoscale Structure and Assembly at Solid Fluid Interfaces Xiang Yang Liu, James J. De Yoreo, *Nanoscale structure and assembly at solid-fluid interfaces* Xiang Yang Liu, Jim De Yoreo, 2004 All of us have read about the vast potential inherent in nanotechnology and the exciting impact it has had in changing our lifestyle in the 21st century One of the basic issues confronting us is how to fabricate devices or materials on the nano scale What is the basic physics governing the formation of nano phases How can biological systems inspire us to formulate nano scale architectures in the way nature has always done and continues to do These are two main areas of focus in this book The aim of this reference is to take us to the root of these issues the solid fluid interfacial structures and the basic interactions between structural units that determine the kinetics of nano particles and assembly formation and subsequently the resulting structures and functionalities of the nano phases and devices By taking a fresh look at the novel nano structure engineering and surface probing technologies from a global viewpoint of fundamental principles the two volumes of this book direct our focus from the macroscopic phase to the nano structures ranging from inorganic to bio nano materials Featuring contributions from a number of international experts in the related fields this book offers a comprehensive and synergistic look into these challenging issues in terms of theoretical modeling computer simulations advanced surface probing and fabrication and interface characterizations The book also provides a link to the nanostructure engineering of some novel materials playing an important role in advancing technologies in this field **Nanoscale structure and assembly at solid-fluid interfaces** Xiang Yang Liu, Jim De Yoreo, 2004

Nanoscale Structure and Assembly at Solid-Fluid Interfaces James J. De Yoreo, 2014-03-14 The aim of this reference is to take us to the root of these issues the solid fluid interfacial structures and the basic interactions between structural units that determine the kinetics of nano particles and assembly formation and subsequently the resulting structures and functionalities of the nano phases and devices By taking a fresh look at the novel nano structure engineering and surface probing technologies from a global viewpoint of fundamental principles the two volumes of this book direct our focus from the macroscopic phase to the nano structures ranging from inorganic to bio nano materials Featuring contributions from a number of international experts in the related fields this book offers a comprehensive and synergistic look into these challenging issues in terms of theoretical modeling computer simulations advanced surface probing and fabrication and interface characterizations The book also provides a link to the nanostructure engineering of some novel materials playing an important role in advancing technologies in this field [Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale](#) Patricia Maurice, 2009-06-15 An advanced exploration of water rock interactions Based on the author's fifteen years of teaching and tried and tested experiences in the classroom here is a comprehensive exploration of water rock interactions *Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale* covers aspects ranging from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W R interactions such as

nanoparticles geomicrobiology and climate change Providing basic conceptual understanding along with more complex subject matter Professor Patricia Maurice encourages students to look beyond the text to ongoing research in the field Designed to engage the learner the book features Numerous case studies to contextualize concepts Practice and thought questions at the end of each chapter Broad coverage from basic theory to cutting edge topics such as nanotechnology Both basic and applied science This text goes beyond W R interactions to touch on a broad range of environmental disciplines While written for advanced undergraduate and graduate students primarily in geochemistry and soil chemistry Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale will serve the needs of such diverse fields as environmental engineering hydrogeology physics biology and environmental chemistry

Introduction to Nanoscale Science and Technology Massimiliano Ventra, Stephane Evoy, James R. Heflin, 2006-04-11 Nanoscale science and technology is a young promising field that encompasses a wide range of disciplines including physics chemistry biology electrical engineering chemical engineering and materials science With rapid advances in areas such as molecular electronics synthetic biomolecular motors DNA based self assembly and manipulation of individual atoms nanotechnology has captured the attention and imagination of researchers and the general public Introduction to Nanoscale Science and Technology provides a broad and thorough introduction that is aimed specifically at undergraduate seniors and early graduate students in all of the disciplines enumerated above It will also be of value to academic industrial and government researchers interested in a primer in the field The book consists of twenty three chapters arranged in seven sections All chapters have been written by experts from each respective field Exercises and general references are provided at the end of each chapter to encourage students to expand on the topics discussed in the book

Computational Methods for Nanoscale Applications Igor Tsukerman, 2007-12-24 Positioning itself at the common boundaries of several disciplines this work provides new perspectives on modern nanoscale problems where fundamental science meets technology and computer modeling In addition to well known computational techniques such as finite difference schemes and Ewald summation the book presents a new finite difference calculus of Flexible Local Approximation Methods FLAME that qualitatively improves the numerical accuracy in a variety of problems

Surface and Interface Science, Volumes 1 and 2 Klaus Wandelt, 2012-04-16 Covering interface science from a novel surface science perspective this unique handbook offers a comprehensive overview of this burgeoning field Eight topical volumes cover basic concepts and methods elemental and composite surfaces solid gas solid liquid and inorganic biological interfaces as well as applications of surface science in nanotechnology materials science and molecular electronics With its broad scope and clear structure it is ideal as a reference for scientists in the field as well as an introduction for newcomers

Nanomedicine and Nanobiotechnology Stergios Logothetidis, 2012-01-15 This book presents the laboratory scientific and clinical aspects of nanomaterials used for medical applications in the fields of regenerative medicine dentistry and pharmacy It gives a broad overview on the in vitro

compatibility assessment of nanostructured materials implemented in the medical field by the combination of classical biological protocols and advanced non destructive nano precision techniques with special emphasis on the topographical surface energy optical and electrical properties Materials in the physical form of nanoparticles nanotubes and thin films are addressed in terms of their toxicity The different pillars of the Nanomedicine field are also highlighted The book takes an interdisciplinary approach of medicine biology pharmacy physics chemistry engineering nanotechnology and materials science The international group of authors specifically chosen for their distinguished expertise belong to the academic and industrial world in order to provide a broader perspective It appeals to researchers and graduate students

Bioinspiration Xiang Yang Liu, 2012-12-09 Methods in bioinspiration and biomimicking have been around for a long time However due to current advances in modern physical biological sciences and technologies our understanding of the methods have evolved to a new level This is due not only to the identification of mysterious and fascinating phenomena but also to the understandings of the correlation between the structural factors and the performance based on the latest theoretical modeling and experimental technologies Bioinspiration From Nano to Micro Scale provides readers with a broad view of the frontiers of research in the area of bioinspiration from the nano to macroscopic scales particularly in the areas of biomineralization antifreeze protein and antifreeze effect It also covers such methods as the lotus effect and superhydrophobicity structural colors in animal kingdom and beyond as well as behavior in ion channels A number of international experts in related fields have contributed to this book which offers a comprehensive and synergistic look into challenging issues such as theoretical modeling advanced surface probing and fabrication The book also provides a link to the engineering of novel advanced materials playing an important role in advancing technologies in various fields

Handbook of Crystal Growth Tatau Nishinaga, 2014-11-04 Volume IAHandbook of Crystal Growth 2nd Edition Fundamentals Thermodynamics and Kinetics Volume IA addresses the present status of crystal growth science and provides scientific tools for the following volumes Volume II Bulk Crystal Growth and III Thin Film Growth and Epitaxy Volume IA highlights thermodynamics and kinetics After historical introduction of the crystal growth phase equilibria defect thermodynamics stoichiometry and shape of crystal and structure of melt are described Then the most fundamental and basic aspects of crystal growth are presented along with the theories of nucleation and growth kinetics In addition the simulations of crystal growth by Monte Carlo ab initio based approach and colloidal assembly are thoroughly investigated Volume IBHandbook of Crystal Growth 2nd Edition Fundamentals Transport and Stability Volume IB discusses pattern formation a typical problem in crystal growth In addition an introduction to morphological stability is given and the phase field model is explained with comparison to experiments The field of nanocrystal growth is rapidly expanding and here the growth from vapor is presented as an example For the advancement of life science the crystal growth of protein and other biological molecules is indispensable and biological crystallization in nature gives many hints for their crystal growth Another subject

discussed is pharmaceutical crystal growth To understand the crystal growth in situ observation is extremely powerful The observation techniques are demonstrated Volume IA Explores phase equilibria defect thermodynamics of Si stoichiometry of oxides and atomistic structure of melt and alloys Explains basic ideas to understand crystal growth equilibrium shape of crystal rough smooth transition of step and surface nucleation and growth mechanisms Focuses on simulation of crystal growth by classical Monte Carlo ab initio based quantum mechanical approach kinetic Monte Carlo and phase field model Controlled colloidal assembly is presented as an experimental model for crystal growth Volume IIB Describes morphological stability theory and phase field model and comparison to experiments of dendritic growth Presents nanocrystal growth in vapor as well as protein crystal growth and biological crystallization Interprets mass production of pharmaceutical crystals to be understood as ordinary crystal growth and explains crystallization of chiral molecules Demonstrates in situ observation of crystal growth in vapor solution and melt on the ground and in space

Additives and Crystallization Processes Keshra Sangwal, 2007-09-27 Crystal growth technology involves processes for the production of crystals essential for microelectronics communication technologies lasers and energy producing and energy saving technology A deliberately added impurity is called an additive and in different industries these affect the process of crystal growth Thus understanding of interactions between additives and the crystallizing phases is important in different processes found in the lab nature and in various industries This book presents a generalized description of the mechanisms of action of additives during nucleation growth and aggregation of crystals during crystallization and has received endorsement from the President of the International Organization for Crystal Growth It is the first text devoted to the role of additives in different crystallization processes encountered in the lab nature and in industries as diverse as pharmaceuticals food and biofuels A unique highlight of the book are chapters on the effect of additives on crystal growth processes since the phenomena discussed is an issue of debate between researchers

Research Methods in Biomineralization Science, 2013-10-31 This new volume of *Methods in Enzymology* continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods in biomineralization science and includes sections on such topics as determining solution chemistry structure and nucleation probing structure and dynamics at surfaces and interfaces mapping biomineral and morphology and ultrastructure Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers research methods in biomineralization science Contains sections on such topics as and includes sections on such topics as determining solution chemistry structure and nucleation probing structure and dynamics at surfaces and interfaces mapping biomineral and morphology and ultrastructure

Nanoelectronics and Photonics Anatoli Korkin, Federico Rosei, 2008-09-23 *Nanoelectronics and Photonics From Atoms to Materials Devices and Architectures* provides a description of the core elements and challenges of advanced and future information technology Tutorial chapters from leaders in the field cover fundamental topics ranging from materials to devices to system architecture By linking the materials physics and

chemistry at the atomic scale with device and circuit design and performance requirements the book presents a coherent picture of theoretical and experimental research efforts and technology development in this highly interdisciplinary area Short visionary articles by Nicolaas Bloembergen Nobel Laureate in Physics 1981 Konstantin Likharev distinguished professor at Stony Brook University and Stanley Williams senior fellow and director of the Quantum Science Research group at Hewlett Packard offer unique perspectives and insights Nanoelectronics and Photonics is essential reading for researchers and graduate students in materials science device physics and electrical and computer engineering Key Features Provides an authoritative overview of the current status and future trends of nanoelectronics and photonics Presents broad ranging tutorials on both theoretical and experimental aspects of key topics in nanotechnology Written by recognized international experts in each area Addresses the needs of both graduate students and nanotechnology gurus

Scanning Probe

Microscopy of Soft Matter Vladimir V. Tsukruk, Srikanth Singamaneni, 2012-01-09 Well structured and adopting a pedagogical approach this self contained monograph covers the fundamentals of scanning probe microscopy showing how to use the techniques for investigating physical and chemical properties on the nanoscale and how they can be used for a wide range of soft materials It concludes with a section on the latest techniques in nanomanipulation and patterning This first book to focus on the applications is a must have for both newcomers and established researchers using scanning probe microscopy in soft matter research From the contents Atomic Force Microscopy and Other Advanced Imaging Modes Probing of Mechanical Thermal Chemical and Electrical Properties Amorphous Poorly Ordered and Organized Polymeric Materials Langmuir Blodgett and Layer by Layer Structures Multi Component Polymer Systems and Fibers Colloids and Microcapsules Biomaterials and Biological Structures Nanolithography with Intrusive AFM Tip and Dip Pen Nanolithography Microcantilever Based Sensors

Modern Diffraction Methods E. J. Mittemeijer, U. Welzel, 2013-02-04 The role of diffraction methods for the solid state sciences has been pivotal to determining the micro structure of a material Particularly the expanding activities in materials science have led to the development of new methods for analysis by diffraction This book offers an authoritative overview of the new developments in the field of analysis of matter by in particular X ray electron and neutron diffraction It is composed of chapters written by leading experts on modern diffraction methods The focus in the various chapters of this book is on the current forefront of research on and applications for diffraction methods This unique book provides descriptions of the state of the art and at the same time identifies avenues for future research The book assumes only a basic knowledge of solid state physics and allows the application of the described methods by the readers of the book either graduate students or mature scientists

Biomineralization Sourcebook Elaine DiMasi, Laurie B. Gower, 2014-02-25 What does it mean to be at the forefront of a characterization technique Novel implementation and research finding new ways to visualize composites and new techniques all play a role Yet with the myriad of advances in the field keeping up with new and advanced techniques often from many different areas has become a challenge Biomineralization

Kinetics of Water-Rock

Interaction Susan Brantley, James Kubicki, Art White, 2007-12-29 Geochemical kinetics as a topic is now of importance to a wide range of geochemists in academia industry and government and all geochemists need a rudimentary knowledge of the field This book summarizes the fundamentals of geochemical kinetics with examples drawn especially from mineral dissolution and precipitation It also encompasses discussion of high temperature processes and global geochemical cycle modeling Analysis of textures of rocks sediments and mineral surfaces are incorporated throughout and provide a sub theme of the book

Atomic Force Microscopy, Scanning Nearfield Optical Microscopy and Nanoscratching Gerd Kaupp, 2006-10-24 Making a clear distinction is made between nano and micro mechanical testing for physical reasons this monograph describes the basics and applications of the supermicroscopies AFM and SNOM and of the nanomechanical testing on rough and technical natural surfaces in the submicron range down to a lateral resolution of a few nm New or improved instrumentation new physical laws and unforeseen new applications in all branches of natural sciences around physics chemistry mineralogy materials science biology and medicine and nanotechnology are covered as well as the sources for pitfalls and errors It outlines the handling of natural and technical samples in relation to those of flat standard samples and emphasizes new special features Pitfalls and sources of errors are clearly demonstrated as well as their efficient remedy when going from molecularly flat to rough surfaces The academic or industrial scientist learns how to apply the principles for tackling their scientific or manufacturing tasks that include roughness far away from standard samples

New Perspectives on Mineral Nucleation and Growth Alexander E.S. Van Driessche, Matthias Kellermeier, Liane G. Benning, Denis Gebauer, 2016-12-20 In the last decade numerous studies have demonstrated the existence of alternative pathways to nucleation and crystallisation that oppose the classical view Such proposed scenarios include multistage reactions proceeding via various precursor species and or intermediate phases The aim of this book is to review and discuss these recent advances in our understanding of the early stages of mineralisation through a series of contributions that address both experimental and theoretical studies about the formation and nature of initial precursor species e g prenucleation clusters dense liquid phases amorphous nanoparticles etc as well as their transformations leading to the stable mineral phase Several chapters are devoted to cutting edge analytical techniques used for investigating the above processes in situ in real time and at conditions relevant to both natural and industrial processes At the end of the book the editors summarize the key questions that still need to be addressed in order to establish a complete picture of the nucleation and growth processes involved during the formation of minerals

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